

Toggle

AW  
Series

250V/125VAC  
25A  
20A  
15A

Solder Lug  
Screw  
Quick Connect  
Terminal

SP 2 P

Features of the Series

Unlike conventional splash-proof toggle switches that rely solely on O-rings, the AW series splash-proof toggle switches feature an integrated molding of the bushing and lever using silicone rubber. This design completely seals out water from entering the switch interior through the top panel, even during operation.

Prevents Water Intrusion into the Switch from the Top of the Panel

1. The gap between the knob and the bushing is completely sealed by silicone rubber insert molding.
2. Fixed contacts use a metal insert structure.
3. A fully shielded design is applied between the bushing and the case.



Common Specifications

■ Ratings □ = Type of Terminals Symbol (1, 2, 4, 5)

| Symbol<br>Voltage | 0 □ | 1 □ | 2 □ | Load           | Notes                                    |
|-------------------|-----|-----|-----|----------------|------------------------------------------|
| AC125/250V        | 25A | 20A | 15A | Resistive Load | Load only with Resistive, Power Factor=1 |
| DC30V             | 25A | 20A | 15A |                |                                          |

\* A resistive load refers to a load consisting solely of resistance. In actual circuits, however, there may be inductive, capacitive, or motor loads, each of which can generate inrush current. Therefore, when selecting a switch, be sure to choose a rating with sufficient margin above the steady-state current.

For more details, please refer to "Useful Advices and Precautions on Usage of Operational Switches."

Packaging Quantity

|         |         |
|---------|---------|
| SP • DP | 100 pcs |
| 3P • 4P | 50 pcs  |

|                             |                                         |
|-----------------------------|-----------------------------------------|
| Contact Resistance          | 10 mΩ Max. (DC2V 1A)<br>(Initial value) |
| Withstanding Voltage        | AC1,500V 1 Minute                       |
| Insulating Resistance       | 1,000MΩ Min. (DC500V)                   |
| Electrical Life             | 20,000 times                            |
| Operating Temperature Range | -20°C ~ +70°C                           |
| Storage Temperature Range   | -20°C ~ +70°C                           |
| Hand-soldering Conditions   | 350 ± 3°C within 3 sec.                 |



\* For products other than those listed above or for custom items, please contact us.

Product Designations

| Series Name |   | Operational-part Type | Switch Functions | Current Capacity | Type of Terminals |
|-------------|---|-----------------------|------------------|------------------|-------------------|
| A           | W | T                     | A                | 2                | 1                 |

| Operational-part    | Symbol |
|---------------------|--------|
| Splash-proof Toggle | T      |

| Current Capacity | Symbol |
|------------------|--------|
| 25A 125/250V AC  | 0      |
| 20A 125/250V AC  | 1      |
| 15A 125/250V AC  | 2      |

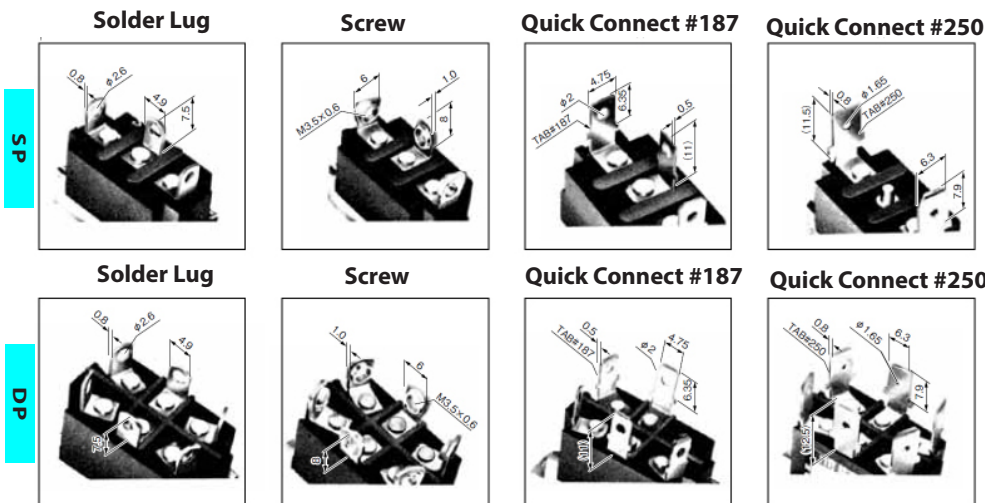
| SwitchFunctions   |        |                 | Symbol |    |
|-------------------|--------|-----------------|--------|----|
| The Opposite Side | Center | Key Thread Side | SP     | DP |
| ON                | -      | OFF             | A      | K  |
| ON                | -      | ON              | D      | N  |
| ON                | OFF    | ON              | E      | P  |
| ON                | -      | <ON>            | F      | R  |
| <ON>              | OFF    | <ON>            | G      | S  |
| ON                | OFF    | <ON>            | H      | T  |

< > = Momentary

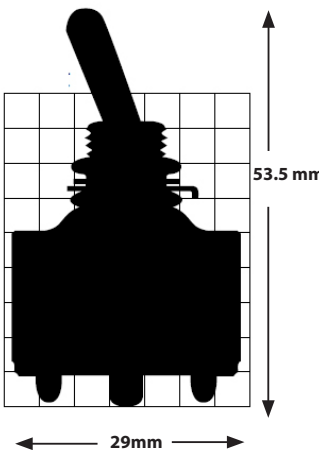
| Type of Terminals           | Symbol |
|-----------------------------|--------|
| Solder Lug                  | 1      |
| Screw Terminal              | 2      |
| Quick Connect Terminal #187 | 4      |
| Quick Connect Terminal #250 | 5      |

Screw Terminal and Quick Connect Terminal # 187 are with 15A, Quick Connect Terminal # 250 with 20,25A only.

Examples of Terminal Figures (SP/ DP)



Silhouette (AWTA21)



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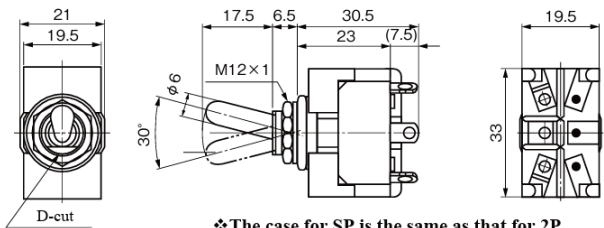
Solder Lug  
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SP 2 P

Switch Names, Functions, Terminal Diagram

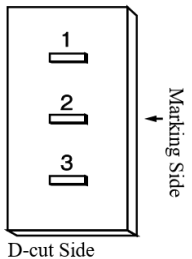
S P

| Product Name | Resistive Load   | Product Name | Resistive Load   | Product Name | Resistive Load   | Circuit | Functions <=> Momentary |     |          |
|--------------|------------------|--------------|------------------|--------------|------------------|---------|-------------------------|-----|----------|
|              | AC125/250V DC30V |              | AC125/250V DC30V |              | AC125/250V DC30V |         |                         |     |          |
| AWTA01       | 25A              | AWTA11       | 20A              | AWTA21       | 15A              | SPST    | ON 1-3                  | —   | OFF      |
| AWTD01       | 25A              | AWTD11       | 20A              | AWTD21       | 15A              | SPDT    | ON 2-3                  | —   | ON 2-1   |
| AWTE01       | 25A              | AWTE11       | 20A              | AWTE21       | 15A              | SPDT    | ON 2-3                  | OFF | ON 2-1   |
| AWTF01       | 25A              | AWTF11       | 20A              | AWTF21       | 15A              | SPDT    | ON 2-3                  | —   | ON 2-1   |
| AWTG01       | 25A              | AWTG11       | 20A              | AWTG21       | 15A              | SPDT    | <ON> 2-3                | OFF | <ON> 2-1 |
| AWTH01       | 25A              | AWTH11       | 20A              | AWTH21       | 15A              | SPDT    | ON 2-3                  | OFF | <ON> 2-1 |



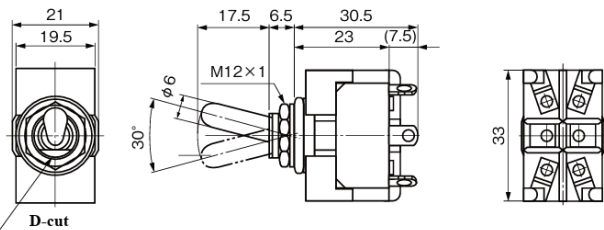
❖The case for SP is the same as that for 2P.

Terminal Diagram

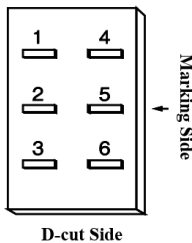


D P

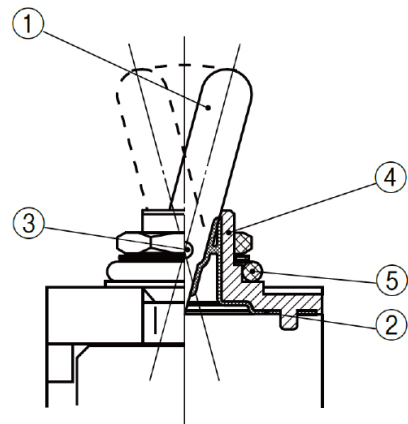
| Product Name | Resistive Load   | Product Name | Resistive Load   | Product Name | Resistive Load   | Circuit | Functions <=> Momentary |     |                 |
|--------------|------------------|--------------|------------------|--------------|------------------|---------|-------------------------|-----|-----------------|
|              | AC125/250V DC30V |              | AC125/250V DC30V |              | AC125/250V DC30V |         |                         |     |                 |
| AWTK01       | 25A              | AWTK11       | 20A              | AWTK21       | 15A              | 2 PST   | ON 1-3<br>4-6           | —   | OFF             |
| AWTN01       | 25A              | AWTN11       | 20A              | AWTN21       | 15A              | 2 PDT   | ON 2-3<br>5-6           | —   | ON 2-1<br>5-4   |
| AWTP01       | 25A              | AWTP11       | 20A              | AWTP21       | 15A              | 2 PDT   | ON 2-3<br>5-6           | OFF | ON 2-1<br>5-4   |
| AWTR01       | 25A              | AWTR11       | 20A              | AWTR21       | 15A              | 2 PDT   | ON 2-3<br>5-6           | —   | ON 2-1<br>5-4   |
| AWTS01       | 25A              | AWTS11       | 20A              | AWTS21       | 15A              | 2 PDT   | <ON> 2-3<br>5-6         | OFF | <ON> 2-1<br>5-4 |
| AWTT01       | 25A              | AWTT11       | 20A              | AWTT21       | 15A              | 2 PDT   | ON 2-3<br>5-6           | OFF | <ON> 2-1<br>5-4 |



Terminal Diagram



Switch's Structure and Materials



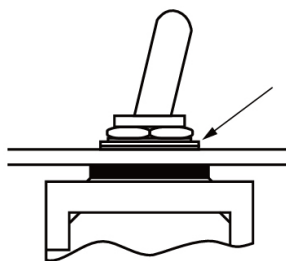
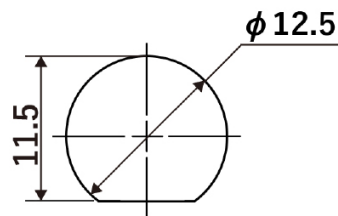
| Symbol | Parts Name          | Materials               |
|--------|---------------------|-------------------------|
| ①      | Knob                | Brass Bar               |
| ②      | Splash-proof Rubber | Silicone Rubber (white) |
| ③      | Shaft               | SUS                     |
| ④      | Bushing             | Zinc Die-cast           |
| ⑤      | O-ring              | NBR                     |

Dimensions of Terminals, Mounting Holes, and Mounting Parts

Dimensions of Terminals A W T

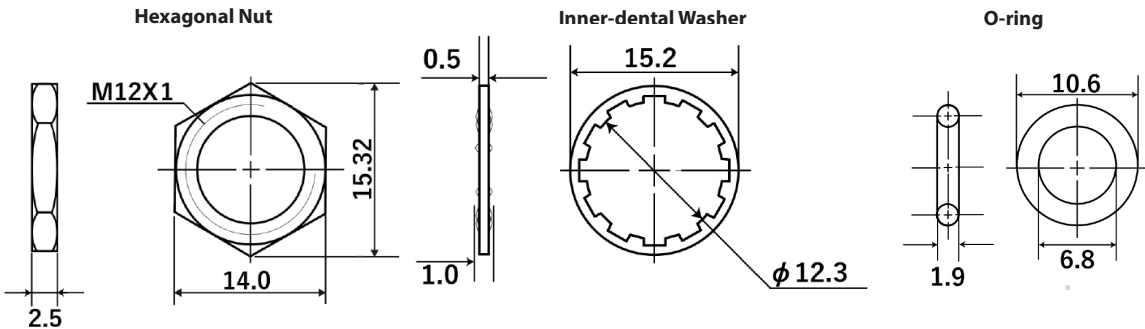
| 1 Solder Lug | 2 Screw Terminal | 4 Quick Connect #187 | 5 Quick Connect #250 |
|--------------|------------------|----------------------|----------------------|
|              |                  |                      |                      |

Mounting Hole Dimensions



\* For splash-proof models, please install the inner-dental washer from the top side of the panel.  
The maximum panel thickness is 3.5 mm.

Dimensions of Mounting Parts



\* All Mounting Parts are pre-installed upon delivery.

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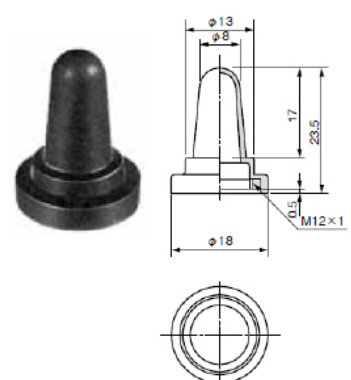
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### Splash-proof Cap、 Other Parts

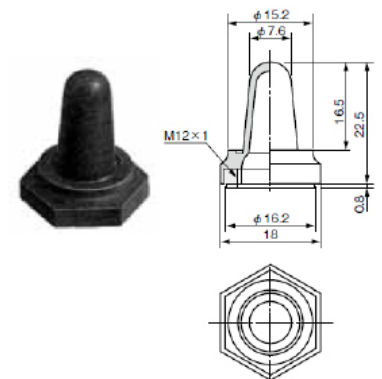
\* The splash-proof type offers splash-proof performance on its own, but using it together with the splash-proof cap shown below can further enhance its splash protection.

#### Round Splash-proof Cap



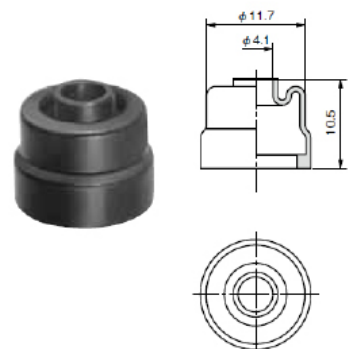
| Materials          | Color | Part Number |
|--------------------|-------|-------------|
| Chloroprene Rubber | Black | 6047-1481   |

#### Hexagonal Splash-proof Cap



| Materials          | Color | Part Number |
|--------------------|-------|-------------|
| Chloroprene Rubber | Black | 6047-0860   |

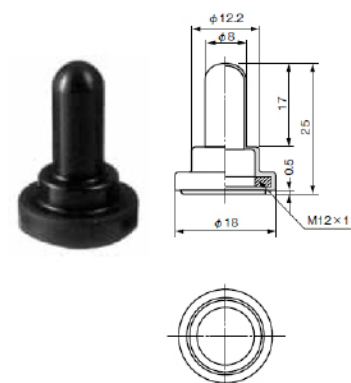
#### Round Dust-tight Cap



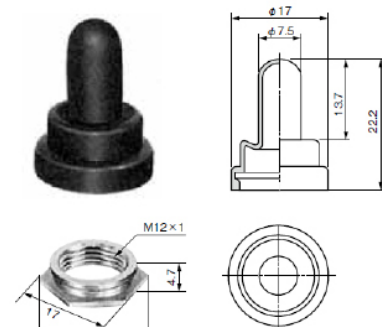
| Materials          | Color | Part Number |
|--------------------|-------|-------------|
| Chloroprene Rubber | Black | 7847-8619   |

This Cap can be directly attached to the Bushing.  
(It can be applied to with M12Hexagonal Nut.)

#### Splash-proof Cap • Nut

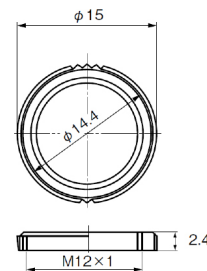


| Materials                 | Color | Part Number |
|---------------------------|-------|-------------|
| Silicone Rubber           | Black | 6047-5967   |
|                           | Red   | 6047-6414   |
| Chloroprene Rubber        | Black | 6047-5949   |
| Ethylene-propylene Rubber | Black | 6047-6170   |



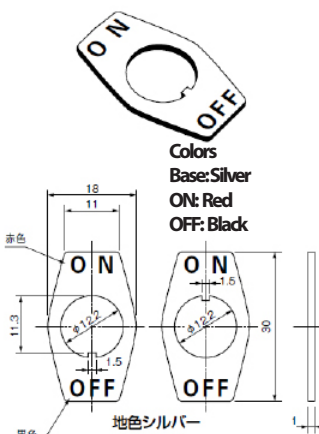
| Materials          | Color | Part Number |
|--------------------|-------|-------------|
| Chloroprene Rubber | Black | 6047-2568   |

#### Other Parts



| Part Number |
|-------------|
| 9801-0134   |

#### ON • OFF Name Plate (Excl. Splash-proof Type)

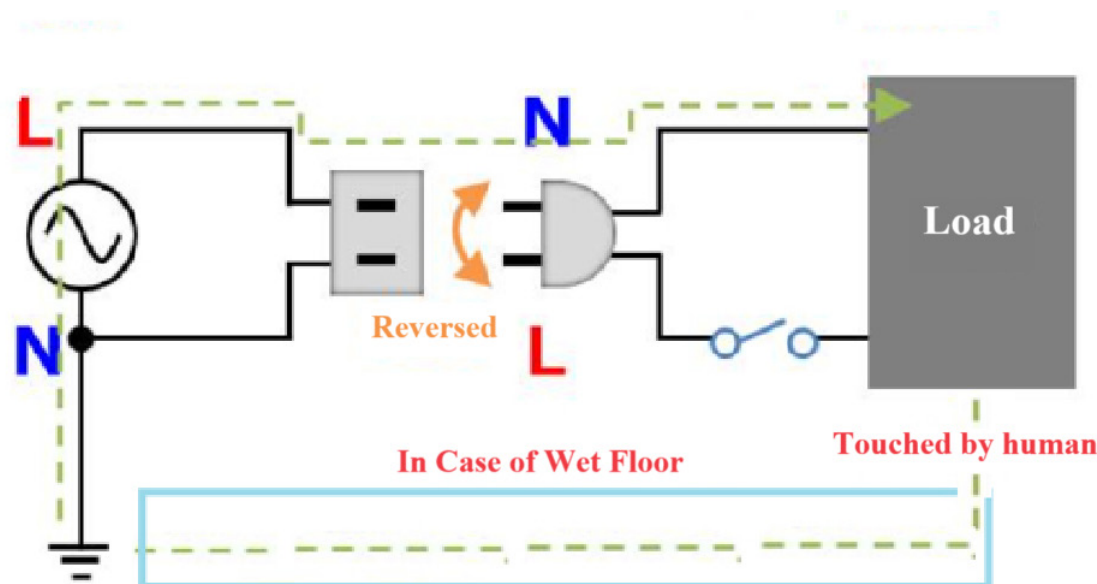


| Part Number |
|-------------|
| 1 9804-0135 |
| 2 9804-1105 |

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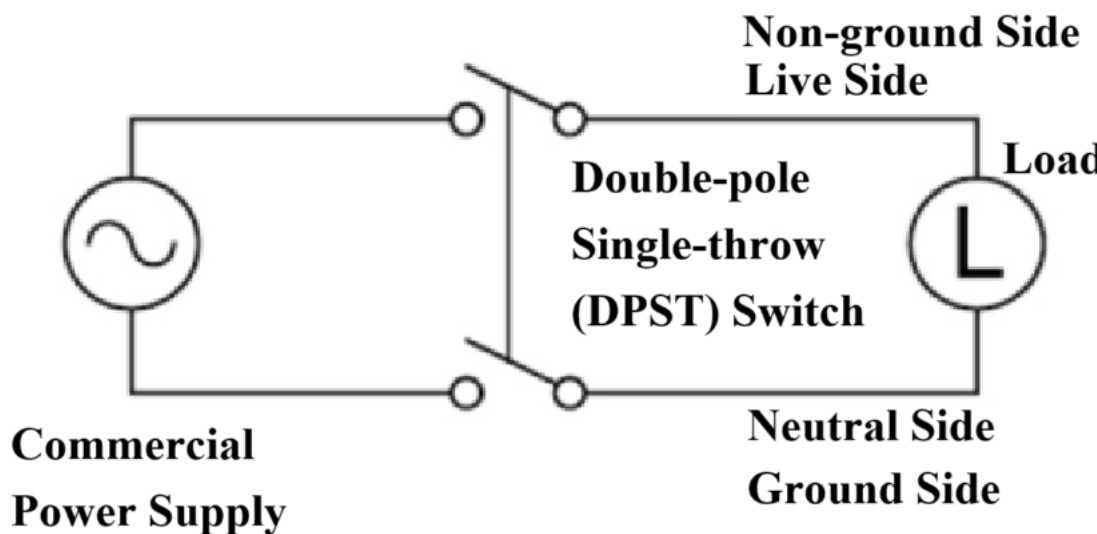
### Switch Tips

#### Simultaneous Switching of 2-Pole Power Switch



Did you know that even standard 100V AC power plugs have a proper orientation? In a 100V AC system, one side of the power line is grounded (connected to earth). At the same time, many electronic and electrical devices use their metal chassis as a ground reference. In such a setup, if the plug is inserted in reverse—as shown in the diagram—and a person touches the chassis while standing on a wet floor, a circuit may be formed, allowing current to flow through the person. This poses a serious risk of electric shock.

To prevent such accidents, we recommend using double-pole switching, where both the live (L) and neutral (N) lines are disconnected simultaneously using a two-pole switch. Standard power switches typically control only the live (L) line, but double-pole switches interrupt both lines at once, completely isolating the device from the power source. This provides a higher level of safety, particularly in environments where the floor may be wet or where high-voltage equipment is in use.



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